

Curriculum Vitae of
CHRISTOPHER A. BERTELO

Elf Atochem North America, Inc.
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EDUCATION

Ph.D. in Chemistry, Princeton University, Princeton, New Jersey (1975)
B.S. in Chemistry, Bates College, Lewiston, Maine (1969)

EXPERIENCE

Manager of Research and Development for the Plastics Additives Business
Elf Atochem North America, Inc., King of Prussia, PA (1985 - present)
(formerly M&T Chemicals, Inc.)

Senior Chemist
Tenneco Chemical Co., Piscataway, New Jersey (1978-1985)

Visiting Assistant Professor
Grinnell College, Grinnell, Iowa (1977)

Associate Research Chemist
University of Iowa, Iowa City, Iowa (1975-1977)

HONORS

Elf Atochem North America, Inc. Award for Outstanding Research (4 times)

Elf Aquitane Innovation Award (1993)

SCIENTIFIC CONTRIBUTIONS

U.S. Pat. No. 5,773,520, *Impact Additive of the Core/shell Type for Thermoplastic Polymers* (as well as other related foreign patents)

U.S. Pat. No. 5,763,515, *Reinforcing Compositions Including a Precipitated Silica for Thermoplastic Polymers Which Improve Anticaking and Flow properties.*

U.S. Pat. No. 5,693,699, *Reinforcing Compositions for Thermoplastic Polymers, Including a Synergistic Combination of Micronized Silica and a Calcium Salt Which Have Improved Anticaking and Flow Properties.*

Beitel, J.J., Bertelo, C.A., Carroll, W.F., Jr., Grand, A. F. Hirschler, M.M., Smith, G.F. *Hydrogen chloride transport and decay in a large apparatus: II. Variables affecting hydrogen chloride decay.* J. FIRE SCI. 5(2): 105-145 (1987).

Bertelo, C.A., Carroll, W.F., Jr., Hirschler, M.M., Smith, G.F., *Hydrogen chloride generation and decay from the thermal decomposition of poly(vinyl chloride) wire insulation.* PROC. INT. CONF. FIRE SAF. 11: 192-204 (1986).

Sybert, P.D., Bertelo, C.A., Bigelow, W.B., Varaprat, S., Stille, J.K. *Synthesis of (R)-cyclohexylmethyl-p-styrylphosphine and the preparation of polymer-bound optically active phosphines.* MACROMOLECULES 14(3): 502-6 (1981).

Stille, J.K., Fritschel, S.J., Takaishi, N., Masuda, T., Imai, H., Bertelo, C.A. *Asymmetric synthesis via polymer-attached optically active catalysts.* ANN. N.Y. ACAD. SCI. 333: 35-44 (1980).

Takaishi, N., Imai, H., Bertelo, C.A., Stille, J.K.. *Transition metal catalyzed asymmetric organic syntheses via polymer-attached optically active phosphine ligands. Synthesis of R amino acids and hydratropic acid by hydrogenation.* J. AM. CHEM. SOC. 100(1): 264-8 (1978).

Bertelo, C.A., *The bonding and reactivity of cyclooctatetraene transition metal complexes and the reactivity of alkyl and hydride derivatives of chlorodi-pi-cyclopentadienylzirconium.* Princeton University Dissertation (1975).

Takaishi, N., Imai, H., Bertelo, C.A., Stille, J.K. *Transition metal catalyzed asymmetric organic synthesis via polymer bound chiral ligands. Synthesis of R amino acids and hydratropic acid by hydrogenation.* J. AM. CHEM. SOC. 98(17): 5400-2 (1976).

Bertelo, C.A., Schwartz, J. *Hydrozirconation. V. gamma, delta-unsaturated aldehydes and halides from 1,3-dienes via organozirconium (IV) intermediates.* J. AM. CHEM. SOC. 98(1): 262-4 (1976). Work related to this article was featured at an American Chemical Society conference.

Bertelo, C.A., Schwartz, J. *Hydrozirconation. II. Oxidative homologation of olefins via carbon monoxide insertion into the carbon-zirconium bond.* J. AM. CHEM. SOC. 97(1): 228-30 (1975). Work related to this article was featured at an American Chemical Society conference.

Second, Third and Fourth International Conferences on Advances in Additives and Modifiers for Polymer Blends (presentation). *Impact Modification of Polymers* (1993, 1994-chair, 1995)

Society of Plastics Engineers Polyvinyl chloride RETEC Conference (presentation). *Use of Process Aids in Polyvinyl Chloride* (1994).

The Polytechnical Institute of Brooklyn (presentation). *Impact Modification of Polymers* (1992).

American Chemical Society (presentation). *The Fire Performance of Polyvinyl Chloride* (1985).

PROFESSIONAL ASSOCIATIONS

American Chemical Society

Society of Plastics Engineers

PERSONAL

Born April 22, 1947, in Orange, New Jersey.

I am a Vietnam veteran.